ANALYTICAL RESULTS – OBJECT 4

PARTNER:	**UNITO - CCR**
TYPE OF WORK:	**Mural (Object 4)**
COUNTRY:	**Italy**
CITY:	**Turin**
ADDRESS:	**Via Spalato 59**
OWNER / CUSTODIAN:	**Digital Group S.r.l.**
ARTIST:	**Truly Design**
TITLE OF THE WORK:	**No title**
YEAR OF EXECUTION:	**2010**
MATERIALS:	**Mixed painting on plaster**

SAMPLING POINTS LOCATION

TABLE OF ANALYTICAL RESULTS

	Name of the sample	Original materials	No original materials	Pigments / dyes		Organic binders		Type of support*		Other**	
				Identification methods	Results	Identification methods	Results	Identification methods	Results	Identification methods	Results
1	**Background white paint layer**	x		ATR-FTIR SEM-EDS	Calcite, quartz, Ti white	ATR-FTIR	Possibly styrene-acrylic				
2	**Cross section**	x									
3	**Cross section**	x									
4	**Shiny black paint layer**	x		ATR-FTIR	Silicates	ATR-FTIR	Alkyd				
5	**Salts**	x								FTIR-ATR	Organic contamination
6	**Red-orange paint layer**	x		ATR-FTIR	Quartz	ATR-FTIR Py-GC/MS	Styrene-modified alkyd				
7	**Dark red paint layer (applied by brush)**	x		ATR-FTIR SEM-EDS	Silicates, Barite,Ti white, possibly PR 48	ATR-FTIR	Alkyd				
8	**Dark red paint layer**	x		ATR-FTIR	Silicates	ATR-FTIR Py-GC/MS	Styrene-modified alkyd				
9	**Cross section**	x									
10	**White paint layer**	x		ATR-FTIR SEM-EDS	Quartz, Ti white	ATR-FTIR Py-GC/MS	Styrene-modified alkyd				

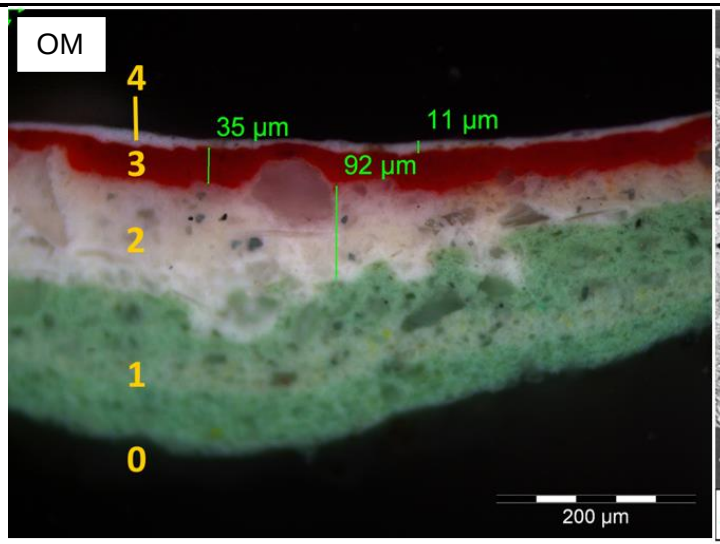
11	**Opaque black paint layer**	x		ATR-FTIR	Calcite, quartz	ATR-FTIR	Styrene-modified alkyd				
12	**Shiny black paint layer**	x		ATR-FTIR		ATR-FTIR Py-GC/MS	Styrene-modified alkyd				

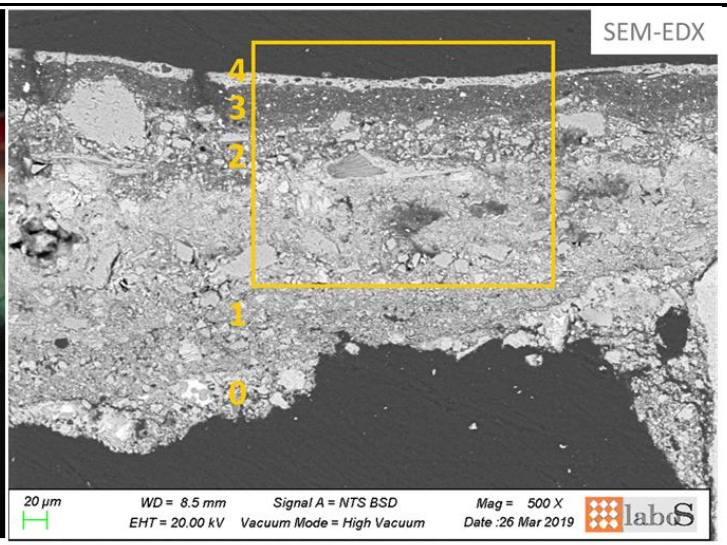
*** mortars, stone, metal ect.**

**** Additional research or analyzes, for example: aging tests, colorimetry, pH…**

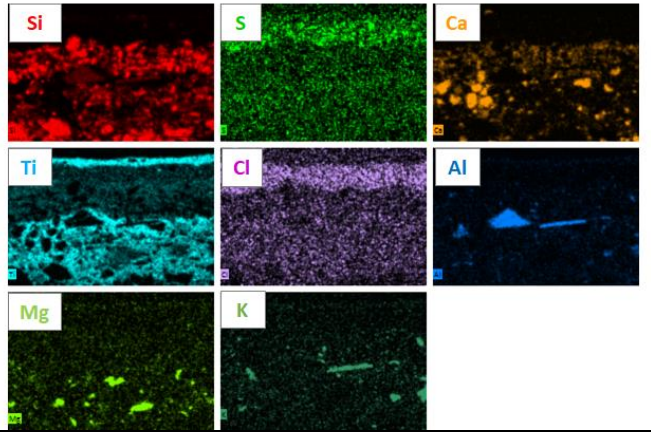
STRATIGRAPHY OF THE MICROSAMPLES

Sample n°: OBJ4_9



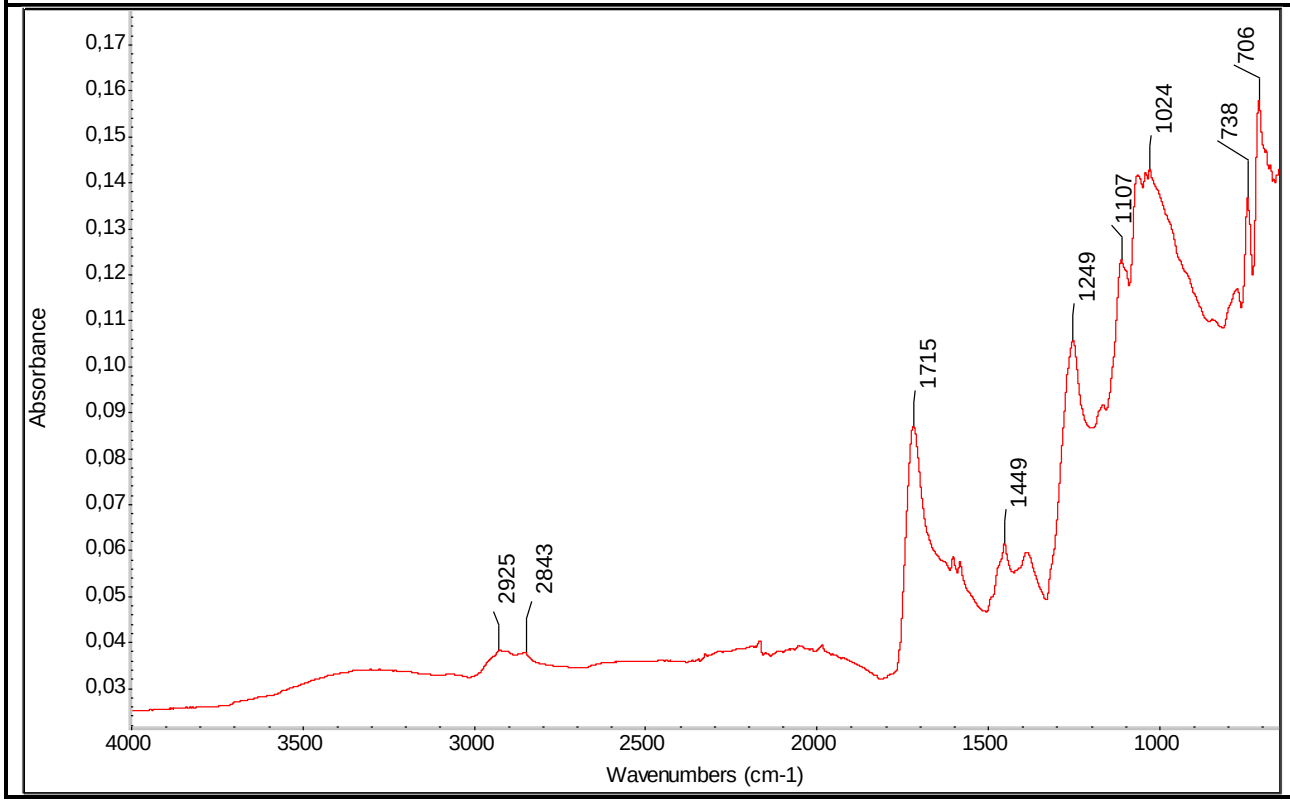


0 – support	**Ca,** Al, Si, (Ti), (P), (S), (Mg)
1 – green	**Si,** Ti, Ca, (Al), (Mg), (Cl) + quartz inclusion
2 – white	**Si,** Ca, Ti, (Al), (Cl)
3 – red	Organic? (Ti), (Cl), (Si) + aggregates of $BaSO_4$
4 – white	**Ti**, (Si), (S), (Al), (Mg), (P), (Cl), (Ca)



FOURIER-TRANSFORM INFRARED SPECTROSCOPY (FTIR)

Sample n°: OBJ4_4

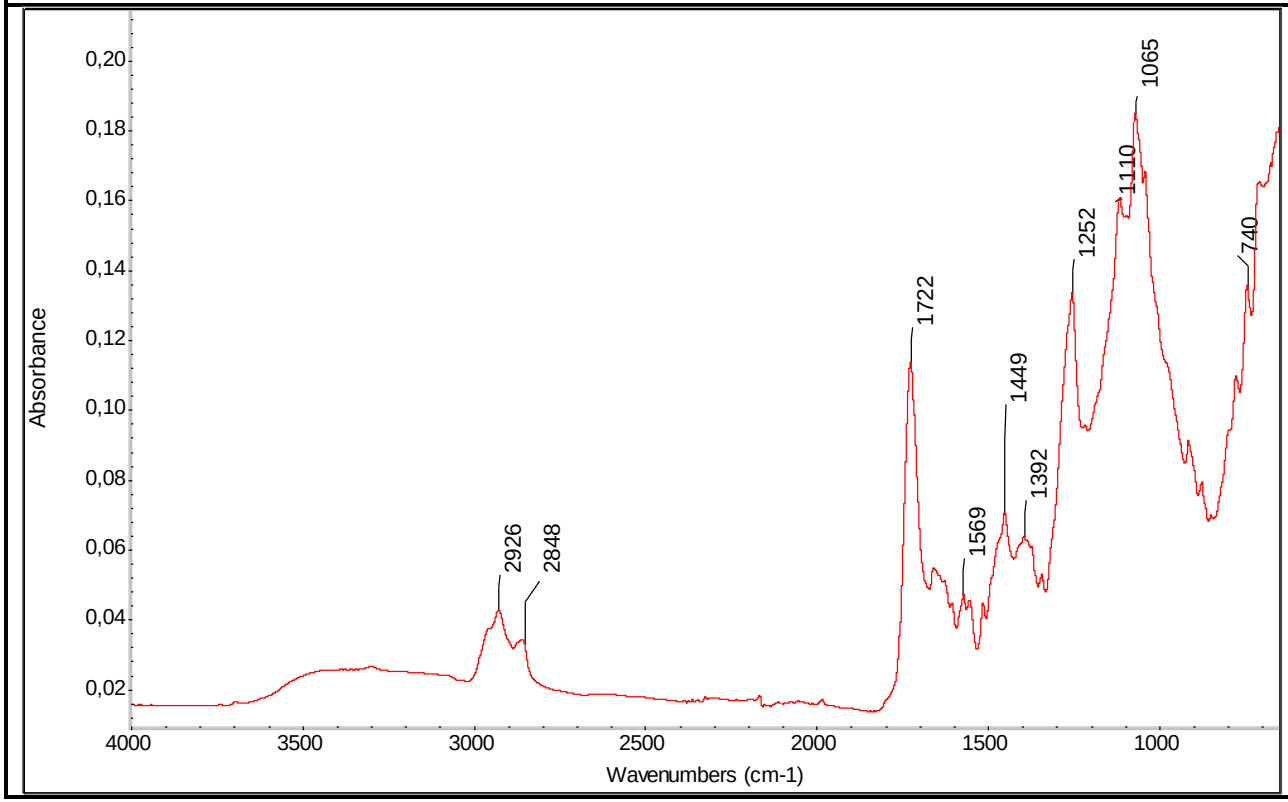


ASSIGNMENTS:

Alkyd: 2925 cm^{-1}, 2843 cm^{-1}, 1715 cm^{-1}, 1600 cm^{-1}, 1583 cm^{-1}, 1492 cm^{-1}, 1449 cm^{-1}, 1378 cm^{-1} ,1107 cm^{-1}, 1072 cm^{-1}, 738 cm^{-1}, 706 cm^{-1}

Silicates: 900-1200 cm^{-1}

Sample n°: OBJ4_8



ASSIGNMENTS:

Alkyd: 2957 cm^{-1}, 2870 cm^{-1}, 1725 cm^{-1}, 1600 cm^{-1}, 1583 cm^{-1},1465 cm^{-1}, 1252 cm^{-1}, 1116 cm^{-1}, 1065 cm^{-1}, 742 cm^{-1}, 702 cm^{-1}

Silicates: 900-1200 cm^{-1}

This document was produced within the project ***Conservation of Art in Public Spaces (CAPuS)***.

Authors:

Moira Bertasa, Tommaso Poli, Chiara Riedo, Dominique Scalarone (University of Torino)

Paola Croveri, Chiara Ricci (Fondazione Centro Conservazione e Restauro “La Venaria Reale”)

Education, Audiovisual and Culture Executive Agency
Erasmus+: Higher Education-Knowledge Alliances, Bologna Support, Jean Monnet

CAPuS project has received funding from the European Commission, Programme Erasmus+ Knowledge Alliances 2017, Project N° 588082-EPP-A-2017-1-IT-EPPKA2-KA